



# MAJOR SOURCE OPERATING PERMIT

**PERMITTEE:** PHIFER INCORPORATED

**FACILITY NAME:**

**FACILITY/PERMIT NO.:** 413-0012

**LOCATION:** TUSCALOOSA, TUSCALOOSA COUNTY, ALABAMA

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

**Issuance Date:** Draft

**Effective Date:** February 12, 2012

**Expiration Date:** February 11, 2017

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## General Permit Provisos

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<p><b>1.     <u>Transfer</u></b></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-13(1)(a)5.</p> <p><b>2.     <u>Renewals</u></b></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p><b>3.     <u>Severability Clause</u></b></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p><b>4.     <u>Compliance</u></b></p> <p>(a)     The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b)     The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.02(6)</p> <p>Rule 335-3-16-.12(2)</p> <p>Rule 335-3-16-.05(e)</p> <p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>



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<p>5.     <b><u>Termination for Cause</u></b></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p> <p>6.     <b><u>Property Rights</u></b></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p> <p>7.     <b><u>Submission of Information</u></b></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p> <p>8.     <b><u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p> <p>9.     <b><u>Certification of Truth, Accuracy, and Completeness:</u></b></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p> <p>10.    <b><u>Inspection and Entry</u></b></p>	<p>Rule 335-3-16-.05(h)</p> <p>Rule 335-3-16-.05(i)</p> <p>Rule 335-3-16-.05(j)</p> <p>Rule 335-3-16-.05(k)</p> <p>Rule 335-3-16-.07(a)</p>

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<p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> <li>(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;</li> <li>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</li> <li>(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;</li> <li>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</li> </ul>	<p>Rule 335-3-16-.07(b)</p>
<p><b>11. <u>Compliance Provisions</u></b></p> <ul style="list-style-type: none"> <li>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</li> <li>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</li> </ul>	<p>Rule 335-3-16-.07(c)</p>
<p><b>12. <u>Compliance Certification</u></b></p> <p>A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit.</p> <ul style="list-style-type: none"> <li>(a) The compliance certification shall include the following: <ul style="list-style-type: none"> <li>(1) The identification of each term or condition of this permit that is the basis of the certification;</li> <li>(2) The compliance status;</li> <li>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting</li> </ul> </li> </ul>	<p>Rule 335-3-16-.07(e)</p>

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<p style="text-align: center;">period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p><b>13. <u>Reopening for Cause</u></b></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p><b>14. <u>Additional Rules and Regulations</u></b></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p><b>15. <u>Equipment Maintenance or Breakdown</u></b></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> <li>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</li> <li>(2) The expected length of time that the air pollution control equipment will be out of service;</li> <li>(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;</li> <li>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</li> <li>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</li> </ol> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are</p>	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p><b>16.    <u>Operation of Capture and Control Devices</u></b></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p><b>17.    <u>Obnoxious Odors</u></b></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p><b>18.    <u>Fugitive Dust</u></b></p> <p>(a)    Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b)    Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1)    By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2)    By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p>	<p>Rule 335-3-4-.02</p>

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<p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p><b>19. <u>Additions and Revisions</u></b></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p><b>20. <u>Recordkeeping Requirements</u></b></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> <li>(1) The date, place, and time of all sampling or measurements;</li> <li>(2) The date analyses were performed;</li> <li>(3) The company or entity that performed the analyses;</li> <li>(4) The analytical techniques or methods used;</li> <li>(5) The results of all analyses; and</li> <li>(6) The operating conditions that existed at the time of sampling or measurement.</li> </ul> <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit</p>	<p>Rule 335-3-16-.05(c)2.</p>

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<p><b>21. <u>Reporting Requirements</u></b></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>Rule 335-3-16-.05(c)3.</p>
<p><b>22. <u>Emission Testing Requirements</u></b></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p> <p>(2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).</p> <p>(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p>

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<p>influence the operations, and the rated capacity.</p> <p>(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>Rule 335-3-1-.04</p>
<p><b>23. <u>Payment of Emission Fees</u></b></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p><b>24. <u>Other Reporting and Testing Requirements</u></b></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>
<p><b>25. <u>Title VI Requirements (Refrigerants)</u></b></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be</p>	<p>40 CFR Part 82</p>



## General Permit Provisos

Federally Enforceable Provisos	Regulations
submitted to the US EPA and the Department as required.	
<p><b>26. <u>Chemical Accidental Prevention Provisions</u></b></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <ul style="list-style-type: none"> <li>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</li> <li>(b) The owner or operator shall submit one of the following: <ul style="list-style-type: none"> <li>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,</li> <li>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</li> </ul> </li> </ul>	40 CFR Part 68
<p><b>27. <u>Display of Permit</u></b></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	Rule 335-3-14-.01(1)(d)
<p><b>28. <u>Circumvention</u></b></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	Rule 335-3-1-.10
<p><b>29. <u>Visible Emissions</u></b></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this</p>	Rule 335-3-4-.01(1)

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>permit.</p>	
<p><b>30. <u>Fuel-Burning Equipment</u></b></p>	
<p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p>	<p>Rule 335-3-4-.03</p>
<p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>Rule 335-3-5-.01</p>
<p><b>31. <u>Process Industries – General</u></b></p>	
<p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p><b>32. <u>Averaging Time for Emission Limits</u></b></p>	
<p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p><b>33. <u>Permit Shield</u></b></p>	
<p>A permit shield exists under this operating permit in accordance with ADEM Admin. Code 335-3-16-.01 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in this operating permit.</p>	<p>Rule 335-3-16-.01</p>

## Operating Permit Summary – Powder Coater No. 1.

**Emission Unit(s):** 001  
**Designation No(s). in Application:** Powder Coater #1 (Formerly Z006)  
**Company:** Phifer Incorporated  
**Description:** Powder coats and cures wire mesh.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 1.0 MMBtu/hr  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Powder Coater No. 1

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
<i>Section 5—Recordkeeping and Reporting Requirements</i>	
1. Records shall be kept of all visible emission observations required under Emission Monitoring of	

this section and of any corrective action taken.

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## Operating Permit Summary – Powder Coater No. 2.

**Emission Unit(s):** 002  
**Designation No(s). in Application:** Powder Coater #2 (formerly Z009)  
**Company:** PhiFer Incorporated  
**Description:** Powder coats and cures wire mesh

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 1.0 MMBtu/hr  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Powder Coater No.2

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
<i>Section 5—Recordkeeping and Reporting Requirements</i>	
1. Records shall be kept of all visible emission observations required under Emission Monitoring of	

this section and of any corrective action taken.

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## Operating Permit Summary – Paint Tower No. 1

**Emission Unit(s):** 005  
**Designation No(s). in Application:** Paint Tower #1 (formerly Paint Tower #3 (005))  
**Company:** Phifer Incorporated  
**Description:** Dip coating of wire mesh and curing in gas fired oven

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 2.5 MMBtu/hr  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NO <sub>x</sub>	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Paint Tower No. 1

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
<i>Section 5—Recordkeeping and Reporting Requirements</i>	
1. Records shall be kept of all visible emission observations required under Emission Monitoring of	

this section and of any corrective action taken.

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## Operating Permit Summary – Paint Tower No. 2

**Emission Unit(s):** 004  
**Designation No(s). in Application:** Paint Tower #2 (Z004)  
**Company:** Phifer Incorporated  
**Description:** Dip coating of wire mesh and curing in gas fired oven

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 1.0 MMBtu/hr

Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Paint Tower No.2

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
4. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
5. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
<i>Section 5—Recordkeeping and Reporting Requirements</i>	
1. Records shall be kept of all visible emission observations required under Emission Monitoring of	

this section and of any corrective action taken.

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## Operating Permit Summary – E-Coater

**Emission Unit(s):** 006  
**Designation No(s). in Application:** E-Coater (formerly Electrodeposition X012)  
**Company:** Phifer Incorporated  
**Description:** Coats wire meshes by electrodeposition.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 1.08 MMBtu/hr  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	39 TPY per rolling 12-month period	ADEM Admin. Code R. 335-3-14-.04
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – E-Coater

Federally Enforceable Provisos	Regulations
<p><i>Section 1—Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”</li> <li>2. This source is subject to a PSD synthetic minor VOC emission limitation</li> <li>3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.</li> <li>4. This unit is subject to the opacity emission rates.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-4-.04</p> <p>ADEM Admin. Code R. 335-3-4-.01</p>
<p><i>Section 2—Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission of Volatile Organic Compounds (VOCs) from this unit from all surface coating operations including, but not limited to coating, storage, cleanup, etc., shall not exceed 39 tons per year (TPY) in any consecutive rolling 12-month period based on the premise that all VOCs applied are emitted.</li> <li>1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).</li> <li>3. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, <math>E = 3.59(P^{0.62})</math> where P is the process weight in tons/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04(8)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 3—Compliance and Performance Test Methods and Procedures</i></p>	



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|--|------------------------------------|
| 1. The HAPs content by weight of each HAPs containing material used shall be determined using EPA Test Method 311, as defined in 40 CFR 63, Appendix A. Vendor data based on this method or formulation data is an appropriate substitute. | ADEM Admin. Code R.<br>335-3-1-.04 |
| 2. The VOC content by weight of each VOC containing material used shall be determined using EPA Test Method 24, as defined in 40 CFR 60, Appendix A. Vendor data based on this method is an appropriate substitute.                        | ADEM Admin. Code R.<br>335-3-1-.04 |
| 3. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |
| 4. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |

*Section 4—Emission Monitoring*

- |  |                                 |
|--|---------------------------------|
| 1. The VOC/HAP monitoring requirements in this permit shall be as required in Section 5—Recordkeeping and Reporting Requirements.  |                                 |
| 2. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made. | ADEM Admin. Code R.<br>335-3-16 |

*Section 5—Recordkeeping and Reporting Requirements*

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| 1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: | ADEM Admin. Code R.<br>335-3-1-.04 |
| (a) The type, quantity in gallons, and weight in pounds of each VOC or HAP containing material used during each calendar month.  |                                    |
| (b) The percent by weight of VOCs, water, solids,  |                                    |

VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.

- (c) The percent by volume of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (d) Compliance with VOC and VHAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and VHAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.
- (e) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and VHAP content) shall be made at the end of each calendar month.
- (f) The amount of VOCs emitted per calendar month from the coating and cleaning operations in units of pounds and tons
- (g) The rolling 12-month total of VOCs emitted from the coating and cleaning operations in units of pounds and tons.

- 2. A report summarizing the information in proviso 5.1 shall be submitted each calendar quarter by the 10<sup>th</sup> day of the month following the end of the quarter, in a format approved by the Department in advance.
- 3. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

ADEM Admin. Code R.  
335-3-1-.04

ADEM Admin. Code R.  
335-3-16

## Operating Permit Summary Yarn Coating Line No. 1.

**Emission Unit(s):** 007  
**Designation No(s). in Application:** 12<sup>th</sup> Yarn Coating Line (formerly Coater 12 (X020))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in three applicators and cures them in three ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NO <sub>x</sub>	N/A	N/A
VOC	39 TPY per rolling 12-month period	ADEM Admin. Code R. 335-3-14-.04
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Yarn Coating Line No. 1

Federally Enforceable Provisos	Regulations
<p><i>Section 1—Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to a PSD synthetic minor VOC emission limitation.</li> <li>2. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”</li> <li>3. This unit is subject to the opacity emission rates.</li> <li>4. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.</li> <li>5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(74), “Polymeric Coating of Supporting Substrates.”</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p> <p>ADEM Admin. Code R. 335-3-10-.02(74)</p>
<p><i>Section 2—Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission of Volatile Organic Compounds (VOCs) from this unit from all surface coating operations including, but not limited to coating, storage, cleanup, etc., shall not exceed 39 tons per year (TPY) in any consecutive rolling 12-month period.</li> <li>2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).</li> <li>3. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, <math>E = 3.59(P^{0.62})</math> where P is the process weight in tons/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04(8)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 3—Compliance and Performance Test Methods and Procedures</i></p>	

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|----|---|------------------------------------|
| 1. | The HAPs content by weight of each HAPs containing material used shall be determined using EPA Test Method 311, as defined in 40 CFR 63, Appendix A. Vendor data based on this method or formulation data is an appropriate substitute. | ADEM Admin. Code R.<br>335-3-1-.04 |
| 2. | The VOC content by weight of each VOC containing material used shall be determined using EPA Test Method 24, as defined in 40 CFR 60, Appendix A. Vendor data based on this method is an appropriate substitute.                        | ADEM Admin. Code R.<br>335-3-1-.04 |
| 3. | Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |
| 4. | Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |

*Section 4—Emission Monitoring*

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|----|---|---------------------------------|
| 1. | The VOC/HAP monitoring requirements in this permit shall be as required in Section 5—Recordkeeping and Reporting Requirements.  |                                 |
| 2. | Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made. | ADEM Admin. Code R.<br>335-3-16 |
| 3. | The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall be immediately made.                 | ADEM Admin. Code R.<br>335-3-16 |

*Section 5—Recordkeeping and Reporting Requirements*

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|----|---|------------------------------------|
| 1. | Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: | ADEM Admin. Code R.<br>335-3-1-.04 |
|----|---|------------------------------------|

- (a) The type, quantity in gallons, and weight in pounds of each VOC or HAP containing material used during each calendar month.
- (b) The percent by weight of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (c) The percent by volume of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (d) Compliance with VOC and VHAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and VHAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.
- (e) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and VHAP content) shall be made at the end of each calendar month.
- (f) The amount of VOCs emitted per calendar month from the coating and cleaning operations in units of pounds and tons
- (g) The amount of VOCs emitted shall be calculated by the formula:

$$\text{VOCs Emitted} = y - (xz + 0.32y)$$

where,       $y$  = VOCs used  
                   $x$  = Amount of coating used  
                   $z$  = Factor for lb VOC removed  
                                  in tenter drip per lb of  
                                  coating used.

- (h) The rolling 12-month total of VOCs emitted from the coating and cleaning operations in units of pounds and tons.

2. This source is subject to the applicable recordkeeping and reporting requirements of 40CFR60 Subpart VVV,

ADEM Admin. Code R.  
 335-3-10-.02(74)

“Standards of Performance for Polymeric Coating of Supporting Substrates Facilities.”

3. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
4. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.
5. A report summarizing the information in provisos 5.1 and 5.2 shall be submitted each calendar quarter by the 10<sup>th</sup> day of the month following the end of the quarter, in a format approved by the Department in advance.

ADEM Admin. Code R.  
335-3-1-.04

## Operating Permit Yarn Coating Line No. 2.

**Emission Unit(s):** 008  
**Designation No(s). in Application:** 10<sup>th</sup> Yarn Coating Line formerly Coater 1 (X018)  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	39 TPY per rolling 12-month period	ADEM Admin. Code R. 335-3-14-.04
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01



## Unit Specific Provisos – Yarn Coating Line No. 2

Federally Enforceable Provisos	Regulations
<p><i>Section 1—Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to a PSD synthetic minor emission limitation.</li> <li>2. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”</li> <li>3. This unit is subject to the opacity emission rates.</li> <li>4. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.</li> <li>5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(74), “Polymeric Coating of Supporting Substrates.”</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p> <p>ADEM Admin. Code R. 335-3-10-.02(74)</p>
<p><i>Section 2—Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission of Volatile Organic Compounds (VOCs) from this unit(008) from all surface coating operations including, but not limited to coating, storage, cleanup, etc., shall not exceed 39 tons per year (TPY) in any consecutive rolling 12-month period.</li> <li>2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).</li> <li>3. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, <math>E = 3.59(P^{0.62})</math> where P is the process weight in tons/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04(8)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 3—Compliance and Performance Test Methods and Procedures</i></p>	

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| 1. The HAPs content by weight of each HAPs containing material used shall be determined using EPA Test Method 311, as defined in 40 CFR 63, Appendix A. Vendor data based on this method or formulation data is an appropriate substitute. | ADEM Admin. Code R.<br>335-3-1-.04 |
| 2. The VOC content by weight of each VOC containing material used shall be determined using EPA Test Method 24, as defined in 40 CFR 60, Appendix A. Vendor data based on this method is an appropriate substitute.                        | ADEM Admin. Code R.<br>335-3-1-.04 |
| 3. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |
| 4. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |

*Section 4—Emission Monitoring*

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| 1. The VOC/HAP monitoring requirements in this permit shall be as required in Section 5—Recordkeeping and Reporting Requirements.  |                                 |
| 2. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made. | ADEM Admin. Code R.<br>335-3-16 |
| 3. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall be immediately made.                 |                                 |

*Section 5—Recordkeeping and Reporting Requirements*

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|--|------------------------------------|
| 1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: | ADEM Admin. Code R.<br>335-3-1-.04 |
|--|------------------------------------|

- (a) The type, quantity in gallons, and weight in pounds of each VOC or HAP containing material used during each calendar month.
- (b) The percent by weight of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (c) The percent by volume of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (d) Compliance with VOC and VHAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and VHAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.
- (e) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and VHAP content) shall be made at the end of each calendar month.
- (f) The amount of VOCs emitted per calendar month from the coating and cleaning operations in units of pounds and tons
- (g) The amount of VOCs emitted shall be calculated by the formula:

$$\text{VOCs Emitted} = y - (xz + 0.32y)$$

where,  $y$  = VOCs used

$x$  = Amount of coating used

$z$  = Factor for lb VOC removed  
in tenter drip per lb of  
coating used.

- (h) The rolling 12-month total of VOCs emitted from the coating and cleaning operations in units of pounds and tons.

2. This source is subject to the applicable recordkeeping and reporting requirements of 40CFR60 Subpart VVV,

ADEM Admin. Code R.  
335-3-10-.02(74)

“Standards of Performance for Polymeric Coating of Supporting Substrates Facilities.”

3. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
4. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.
5. A report summarizing the information in provisos 5.1 and 5.2 shall be submitted each calendar quarter by the 10<sup>th</sup> day of the month following the end of the quarter, in a format approved by the Department in advance.

ADEM Admin. Code R.  
335-3-1-.04

## Operating Permit Summary – Yarn Coating Line No. 3.

**Emission Unit(s):** 009  
**Designation No(s). in Application:** 7<sup>th</sup> Yarn Coating Line formerly Coater 3 (X011)  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NO <sub>x</sub>	N/A	N/A
VOC	39 TPY per rolling 12-month period	ADEM Admin. Code R. 335-3-14-.04
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

### Unit Specific Provisos – Yarn Coating Line No. 3

Federally Enforceable Provisos	Regulations
<p><i>Section 1—Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to a PSD synthetic minor emission limitation.</li> <li>2. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”</li> <li>3. This unit is subject to the opacity emission rates.</li> <li>4. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 2—Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission of Volatile Organic Compounds (VOCs) from this unit (009) from all surface coating operations including, but not limited to coating, storage, cleanup, etc., shall not exceed 39 tons per year (TPY) in any consecutive rolling 12-month period.</li> <li>2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).</li> <li>3. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, <math>E = 3.59(P^{0.62})</math> where P is the process weight in tons/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04(8)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 3—Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. The HAPs content by weight of each HAPs containing material used shall be determined using EPA Test Method 311, as defined in 40 CFR 63, Appendix A. Vendor data based on this method or formulation data is an appropriate substitute.</li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.04</p>

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|---|------------------------------------|
| 2. The VOC content by weight of each VOC containing material used shall be determined using EPA Test Method 24, as defined in 40 CFR 60, Appendix A. Vendor data based on this method is an appropriate substitute. | ADEM Admin. Code R.<br>335-3-1-.04 |
| 3. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.  | ADEM Admin. Code R.<br>335-3-16    |
| 4. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.  | ADEM Admin. Code R.<br>335-3-16    |

*Section 4—Emission Monitoring*

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|--|---------------------------------|
| 1. The VOC/HAP monitoring requirements in this permit shall be as required in Section 5—Recordkeeping and Reporting Requirements.  |                                 |
| 2. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made. | ADEM Admin. Code R.<br>335-3-16 |
| 3. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall be immediately made.                 |                                 |

*Section 5—Recordkeeping and Reporting Requirements*

- |  |                                    |
|--|------------------------------------|
| 1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: | ADEM Admin. Code R.<br>335-3-1-.04 |
| (a) The type, quantity in gallons, and weight in pounds of each VOC or HAP containing material used during each calendar month.  |                                    |
| (b) The percent by weight of VOCs, water, solids, VHAPs, and exempt VOC compounds content of   |                                    |

each VOC containing material used each calendar month.

- (c) The percent by volume of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (d) Compliance with VOC and VHAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and VHAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.
- (e) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and VHAP content) shall be made at the end of each calendar month.
- (f) The amount of VOCs emitted per calendar month from the coating and cleaning operations in units of pounds and tons
- (g) The amount of VOCs emitted shall be calculated by the formula:

$$\text{VOCs Emitted} = y - (xz + 0.32y)$$

where,  $y$  = VOCs used

$x$  = Amount of coating used

$z$  = Factor for lb VOC removed  
in tenter drip per lb of  
coating used.

- (h) The rolling 12-month total of VOCs emitted from the coating and cleaning operations in units of pounds and tons.
2. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
  3. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.



4. A report summarizing the information in proviso 5.1 shall be submitted each calendar quarter by the 10<sup>th</sup> day of the month following the end of the quarter, in a format approved by the Department in advance.

ADEM Admin. Code R.  
335-3-1-.04

## Operating Permit Summary – Yarn Coating Line No. 4

**Emission Unit(s):** 010  
**Designation No(s). in Application:** 5<sup>th</sup> Yarn Coating Line (formerly Coater 8))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**  
 Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NO <sub>x</sub>	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Yarn Coating Line No. 4

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
3. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary – Yarn Coating Line No. 5

**Emission Unit(s):** 011  
**Designation No(s). in Application:** 4<sup>th</sup> Yarn Coating Line (formerly Coater 7))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Yarn Coating Line No. 5

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall	

be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary – Yarn Coating Line No. 6

**Emission Unit(s):** 012  
**Designation No(s). in Application:** 6<sup>th</sup> Yarn Coating Line (formerly Coater 9 (Z007))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01



## Unit Specific Provisos – Yarn Coating Line No. 6

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary – Yarn Coating Line No. 7

**Emission Unit(s):** 013  
**Designation No(s). in Application:** 1<sup>st</sup> Yarn Coating Line (formerly Coater 4 (Z002))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NO <sub>x</sub>	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Yarn Coating Line No. 7

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
3. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary – Yarn Coating Line No. 8

**Emission Unit(s):** 014  
**Designation No(s). in Application:** 2<sup>nd</sup> Yarn Coating Line (formerly Coater 5 (Z003))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Yarn coating Line No. 8

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.



## Operating Permit Summary – Yarn Coating Line No. 9

**Emission Unit(s):** 015  
**Designation No(s). in Application:** 3<sup>rd</sup> Yarn Coating Line (formerly Coater 6 )  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Yarn Coating Line No. 9

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary – Yarn Coating Line No. 10.

**Emission Unit(s):** 016  
**Designation No(s). in Application:** 8<sup>th</sup> Yarn Coating Line formerly Coater 10 (X015))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	39 TPY per rolling 12-month period	ADEM Admin. Code R. 335-3-14-.04
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos Yarn Coating Line No. 10

Federally Enforceable Provisos	Regulations
<p><i>Section 1—Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to a PSD synthetic minor emission limitation.</li> <li>2. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”</li> <li>3. This unit is subject to the opacity emission rates.</li> <li>4. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.</li> <li>5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(74), “Polymeric Coating of Supporting Substrates.”</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p> <p>ADEM Admin. Code R. 335-3-10-.02(74)</p>
<p><i>Section 2—Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission of Volatile Organic Compounds (VOCs) from this unit from all surface coating operations including, but not limited to coating, storage, cleanup, etc., shall not exceed 39 tons per year (TPY) in any consecutive rolling 12-month period.</li> <li>2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).</li> <li>3. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, <math>E = 3.59(P^{0.62})</math> where P is the process weight in tons/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04(8)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 3—Compliance and Performance Test Methods and Procedures</i></p>	

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|--|------------------------------------|
| 1. The HAPs content by weight of each HAPs containing material used shall be determined using EPA Test Method 311, as defined in 40 CFR 63, Appendix A. Vendor data based on this method or formulation data is an appropriate substitute. | ADEM Admin. Code R.<br>335-3-1-.04 |
| 2. The VOC content by weight of each VOC containing material used shall be determined using EPA Test Method 24, as defined in 40 CFR 60, Appendix A. Vendor data based on this method is an appropriate substitute.                        | ADEM Admin. Code R.<br>335-3-1-.04 |
| 3. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |
| 4. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |

*Section 4—Emission Monitoring*

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|--|---------------------------------|
| 1. The VOC/HAP monitoring requirements in this permit shall be as required in Section 5—Recordkeeping and Reporting Requirements.  |                                 |
| 2. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made. | ADEM Admin. Code R.<br>335-3-16 |
| 3. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall be immediately made.                 |                                 |

*Section 5—Recordkeeping and Reporting Requirements*

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|--|------------------------------------|
| 1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: | ADEM Admin. Code R.<br>335-3-1-.04 |
|--|------------------------------------|

- (a) The type, quantity in gallons, and weight in pounds of each VOC or HAP containing material used during each calendar month.
- (b) The percent by weight of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (c) The percent by volume of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (d) Compliance with VOC and VHAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and VHAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.
- (e) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and VHAP content) shall be made at the end of each calendar month.
- (f) The amount of VOCs emitted per calendar month from the coating and cleaning operations in units of pounds and tons
- (g) The amount of VOCs emitted shall be calculated by the formula:

$$\text{VOCs Emitted} = y - (xz + 0.32y)$$

where,  $y$  = VOCs used

$x$  = Amount of coating used

$z$  = Factor for lb VOC removed in tenter drip per lb of coating used.

- (h) The rolling 12-month total of VOCs emitted from the coating and cleaning operations in units of pounds and tons.

2. This source is subject to the applicable recordkeeping and reporting requirements of 40CFR60 Subpart VVV,

ADEM Admin. Code R.  
335-3-10-.02(74)

“Standards of Performance for Polymeric Coating of Supporting Substrates Facilities.”

3. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
4. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.
5. A report summarizing the information in provisos 5.1 and 5.2 shall be submitted each calendar quarter by the 10<sup>th</sup> day of the month following the end of the quarter, in a format approved by the Department in advance.

ADEM Admin. Code R.  
335-3-1-.04



## Operating Permit Summary Yarn Coating Line No. 11.

**Emission Unit(s):** 017  
**Designation No(s). in Application:** 11<sup>th</sup> Yarn Coating Line (formerly Coater 11 (X019))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	39 TPY per rolling 12-month period	ADEM Admin. Code R. 335-3-14-.04
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Yarn Coating Line No. 11

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to a PSD synthetic minor emission limitation.	ADEM Admin. Code R. 335-3-14-.04
2. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, "Major Source Operating Permits."	ADEM Admin. Code R. 335-3-16-.03
3. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
4. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(74), "Polymeric Coating of Supporting Substrates."	ADEM Admin. Code R. 335-3-10-.02(74)
<i>Section 2—Emission Standards</i>	
1. Emission of Volatile Organic Compounds (VOCs) from this unit from all surface coating operations including, but not limited to coating, storage, cleanup, etc., shall not exceed 39 tons per year (TPY) in any consecutive rolling 12-month period.	ADEM Admin. Code R. 335-3-14-.04(8)
2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
3. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	

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|----|---|------------------------------------|
| 1. | The HAPs content by weight of each HAPs containing material used shall be determined using EPA Test Method 311, as defined in 40 CFR 63, Appendix A. Vendor data based on this method or formulation data is an appropriate substitute. | ADEM Admin. Code R.<br>335-3-1-.04 |
| 2. | The VOC content by weight of each VOC containing material used shall be determined using EPA Test Method 24, as defined in 40 CFR 60, Appendix A. Vendor data based on this method is an appropriate substitute.                        | ADEM Admin. Code R.<br>335-3-1-.04 |
| 3. | Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |
| 4. | Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.   | ADEM Admin. Code R.<br>335-3-16    |

*Section 4—Emission Monitoring*

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|----|---|---------------------------------|
| 1. | The VOC/HAP monitoring requirements in this permit shall be as required in Section 5—Recordkeeping and Reporting Requirements.  |                                 |
| 2. | Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made. | ADEM Admin. Code R.<br>335-3-16 |
| 3. | The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall be immediately made.                 |                                 |

*Section 5—Recordkeeping and Reporting Requirements*

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|----|---|------------------------------------|
| 1. | Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: | ADEM Admin. Code R.<br>335-3-1-.04 |
|----|---|------------------------------------|

- (a) The type, quantity in gallons, and weight in pounds of each VOC or HAP containing material used during each calendar month.
- (b) The percent by weight of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (c) The percent by volume of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (d) Compliance with VOC and VHAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and VHAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.
- (e) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and VHAP content) shall be made at the end of each calendar month.
- (f) The amount of VOCs emitted per calendar month from the coating and cleaning operations in units of pounds and tons
- (g) The amount of VOCs emitted shall be calculated by the formula:

$$\text{VOCs Emitted} = y - (xz + 0.32y)$$

where,  $y$  = VOCs used

$x$  = Amount of coating used

$z$  = Factor for lb VOC removed  
in tenter drip per lb of  
coating used.

- (h) The rolling 12-month total of VOCs emitted from the coating and cleaning operations in units of pounds and tons.

2. This source is subject to the applicable recordkeeping and reporting requirements of 40CFR60 Subpart VVV,

ADEM Admin. Code R.  
335-3-10-.02(74)

“Standards of Performance for Polymeric Coating of Supporting Substrates Facilities.”

3. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
4. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.
5. A report summarizing the information in provisos 5.1 and 5.2 shall be submitted each calendar quarter by the 10<sup>th</sup> day of the month following the end of the quarter, in a format approved by the Department in advance.

ADEM Admin. Code R.  
335-3-1-.04

## Operating Permit Summary Yarn Coating Line No. 12.

**Emission Unit(s):** 018  
**Designation No(s). in Application:** 9<sup>th</sup> Yarn Coating Line (formerly Coater 2 (X017))  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	39 TPY per rolling 12-month period	ADEM Admin. Code R. 335-3-14-.04
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos Yarn Coating Line No. 12

Federally Enforceable Provisos	Regulations
<p><i>Section 1—Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to a PSD synthetic minor emission limitation.</li> <li>2. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, "Major Source Operating Permits."</li> <li>3. This unit is subject to the opacity emission rates.</li> <li>4. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.</li> <li>5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(74), "Polymeric Coating of Supporting Substrates."</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p> <p>ADEM Admin. Code R. 335-3-10-.02(74)</p>
<p><i>Section 2—Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission of Volatile Organic Compounds (VOCs) from this unit from all surface coating operations including, but not limited to coating, storage, cleanup, etc., shall not exceed 39 tons per year (TPY) in any consecutive rolling 12-month period.</li> <li>2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).</li> <li>3. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, <math>E = 3.59(P^{0.62})</math> where P is the process weight in tons/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04(8)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 3—Compliance and Performance Test Methods and Procedures</i></p>	

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|---|------------------------------------|
| 1. The HAPs content by weight of each HAPs containing material used shall be determined using EPA Test Method 311, as defined in 40 CFR 63, Appendix A. Vendor data based on this method or formulation data is an appropriate substitute.. | ADEM Admin. Code R.<br>335-3-1-.04 |
| 2. The VOC content by weight of each VOC containing material used shall be determined using EPA Test Method 24, as defined in 40 CFR 60, Appendix A. Vendor data based on this method is an appropriate substitute.                         | ADEM Admin. Code R.<br>335-3-1-.04 |
| 3. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.  | ADEM Admin. Code R.<br>335-3-16    |
| 4. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.  | ADEM Admin. Code R.<br>335-3-16    |

*Section 4—Emission Monitoring*

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|--|---------------------------------|
| 1. The VOC/HAP monitoring requirements in this permit shall be as required in Section 5—Recordkeeping and Reporting Requirements.  |                                 |
| 2. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made. | ADEM Admin. Code R.<br>335-3-16 |
| 3. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall be immediately made.                 |                                 |

*Section 5—Recordkeeping and Reporting Requirements*

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|--|------------------------------------|
| 1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: | ADEM Admin. Code R.<br>335-3-1-.04 |
|--|------------------------------------|



- (a) The type, quantity in gallons, and weight in pounds of each VOC or HAP containing material used during each calendar month.
- (b) The percent by weight of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (c) The percent by volume of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (d) Compliance with VOC and VHAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and VHAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.
- (e) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and VHAP content) shall be made at the end of each calendar month.
- (f) The amount of VOCs emitted per calendar month from the coating and cleaning operations in units of pounds and tons
- (g) The amount of VOCs emitted shall be calculated by the formula:

$$\text{VOCs Emitted} = y - (xz + 0.32y)$$

where,  $y$  = VOCs used

$x$  = Amount of coating used

$z$  = Factor for lb VOC removed  
in tenter drip per lb of  
coating used.

- (h) The rolling 12-month total of VOCs emitted from the coating and cleaning operations in units of pounds and tons.

- 2. This source is subject to the applicable recordkeeping and reporting requirements of 40CFR60 Subpart VVV,

ADEM Admin. Code R.  
335-3-10-.02(74)

“Standards of Performance for Polymeric Coating of Supporting Substrates Facilities.”

3. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
4. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.
5. A report summarizing the information in provisos 5.1 and 5.2 shall be submitted each calendar quarter by the 10<sup>th</sup> day of the month following the end of the quarter, in a format approved by the Department in advance.

ADEM Admin. Code R.  
335-3-1-.04

## Operating Permit Summary Yarn Coating Line No. 13

**Emission Unit(s):** 029  
**Designation No(s). in Application:** 13<sup>th</sup> Yarn Coating Line (Air Permit X029)  
**Company:** Phifer Incorporated  
**Description:** Coats yarns in two applicators and cures them in two ovens. Ovens vented through a scrubber and ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 800,000BTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	39 TPY per rolling 12-month period	ADEM Admin. Code R. 335-3-14-.04
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos Yarn Coating Line No. 13

Federally Enforceable Provisos	Regulations
<p><i>Section 1—Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to a PSD synthetic minor emission limitation.</li> <li>2. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”</li> <li>3. This unit is subject to the opacity emission rates.</li> <li>4. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.</li> <li>5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(74), “Polymeric Coating of Supporting Substrates.”</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p> <p>ADEM Admin. Code R. 335-3-10-.02(74)</p>
<p><i>Section 2—Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission of Volatile Organic Compounds (VOCs) from this unit from all surface coating operations including, but not limited to coating, storage, cleanup, etc., shall not exceed 39 tons per year (TPY) in any consecutive rolling 12-month period.</li> <li>2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).</li> <li>3. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, <math>E = 3.59(P^{0.62})</math> where P is the process weight in tons/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14-.04(8)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 3—Compliance and Performance Test Methods and Procedures</i></p>	

- |   |                                    |
|---|------------------------------------|
| 1. The HAPs content by weight of each HAPs containing material used shall be determined using EPA Test Method 311, as defined in 40 CFR 63, Appendix A. Vendor data based on this method or formulation data is an appropriate substitute.. | ADEM Admin. Code R.<br>335-3-1-.04 |
| 2. The VOC content by weight of each VOC containing material used shall be determined using EPA Test Method 24, as defined in 40 CFR 60, Appendix A. Vendor data based on this method is an appropriate substitute.                         | ADEM Admin. Code R.<br>335-3-1-.04 |
| 3. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.  | ADEM Admin. Code R.<br>335-3-16    |
| 4. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.  | ADEM Admin. Code R.<br>335-3-16    |

*Section 4—Emission Monitoring*

- |  |                                 |
|--|---------------------------------|
| 1. The VOC/HAP monitoring requirements in this permit shall be as required in Section 5—Recordkeeping and Reporting Requirements.  |                                 |
| 2. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made. | ADEM Admin. Code R.<br>335-3-16 |
| 3. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall be immediately made.                 |                                 |

*Section 5—Recordkeeping and Reporting Requirements*

- |  |                                    |
|--|------------------------------------|
| 1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: | ADEM Admin. Code R.<br>335-3-1-.04 |
|--|------------------------------------|

- (a) The type, quantity in gallons, and weight in pounds of each VOC or HAP containing material used during each calendar month.
- (b) The percent by weight of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (c) The percent by volume of VOCs, water, solids, VHAPs, and exempt VOC compounds content of each VOC containing material used each calendar month.
- (d) Compliance with VOC and VHAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and VHAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.
- (e) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and VHAP content) shall be made at the end of each calendar month.
- (f) The amount of VOCs emitted per calendar month from the coating and cleaning operations in units of pounds and tons
- (g) The amount of VOCs emitted shall be calculated by the formula:

$$\text{VOCs Emitted} = y - (xz + 0.32y)$$

where,  $y$  = VOCs used

$x$  = Amount of coating used

$z$  = Factor for lb VOC removed  
in tenter drip per lb of  
coating used.

- (h) The rolling 12-month total of VOCs emitted from the coating and cleaning operations in units of pounds and tons.

2. This source is subject to the applicable recordkeeping and reporting requirements of 40CFR60 Subpart VVV,

ADEM Admin. Code R.  
335-3-10-.02(74)

"Standards of Performance for Polymeric Coating of Supporting Substrates Facilities."

3. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
4. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.
5. A report summarizing the information in provisos 5.1 and 5.2 shall be submitted each calendar quarter by the 10<sup>th</sup> day of the month following the end of the quarter, in a format approved by the Department in advance.

ADEM Admin. Code R.  
335-3-1-.04

## Operating Permit Summary Tenter No. 1

**Emission Unit(s):** 019  
**Designation No(s). in Application:** Tenter 1 (formerly (X015)  
**Company:** Phifer Incorporated  
**Description:** Fabrics woven from coated yarns are passed through oven to achieve bonding of yarns at crossing points. Oven vented through wet scrubbers and an ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**  
 Primary: Natural Gas 7.0MMBTU/hr  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01



## Unit Specific Provisos – Tenter No. 1

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
3. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary Tenter No. 2

**Emission Unit(s):** 020  
**Designation No(s). in Application:** Tenter 2 (formerly (Z013))  
**Company:** Phifer Incorporated  
**Description:** Fabrics woven from coated yarns are passed through oven to achieve bonding of yarns at crossing points. Oven vented through wet scrubbers and an ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 7.2MMBTU/hr  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NO <sub>x</sub>	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Tenter No. 2

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
3. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary Tenter No. 3

**Emission Unit(s):** 021  
**Designation No(s). in Application:** Tenter 3 (formerly (X021))  
**Company:** Phifer Incorporated  
**Description:** Fabrics woven from coated yarns are passed through oven to achieve bonding of yarns at crossing points. Oven vented through wet scrubbers and an ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 10.5 MMBTU/hr

Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	3.2 lb/hr	ADEM Admin. Code R. 335-3-14-.04
CO	N/A	N/A
NO <sub>x</sub>	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

### Unit Specific Provisos Tenter No. 3

Federally Enforceable Provisos	Regulations
<p><i>Section 1—Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”</li> <li>2. This unit is subject to the opacity emission rates.</li> <li>3. This source is subject to a PSD synthetic minor emission limitation.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<p><i>Section 2--Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).</li> <li>2. Particulate matter from this unit shall not exceed 3.2 lb/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04</p>
<p><i>Section 3--Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.</li> <li>2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-16</p>
<p><i>Section 4--Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.</li> <li>2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p>

be immediately made.

*Section 5--Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.



## Operating Permit Summary Tenter No. 4

**Emission Unit(s):** 022  
**Designation No(s). in Application:** Tenter 4 (formerly (Z008))  
**Company:** Phifer Incorporated  
**Description:** Fabrics woven from coated yarns are passed through oven to achieve bonding of yarns at crossing points. Oven vented through wet scrubbers and an ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 4.8 MMBTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos Tenter No. 4

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, "Major Source Operating Permits."	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code r. 335-3-4-.04
<i>Section 2--Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3--Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4--Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2 or more cells horizontally are not working repairs shall	

be immediately made.

*Section 5--Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary Tenter No. 5

**Emission Unit(s):** 023  
**Designation No(s). in Application:** Tenter 5 (formerly (X010))  
**Company:** Phifer Incorporated  
**Description:** Fabrics woven from coated yarns are passed through oven to achieve bonding of yarns at crossing points. Oven vented through wet scrubbers and an ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 4.8 MMBTU/hr  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Tenter No. 5

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, "Major Source Operating Permits."	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
3. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code r. 335-3-4-.04
<i>Section 2--Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3--Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4--Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5--Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary Tenter No. 6

**Emission Unit(s):** 024  
**Designation No(s), in Application:** Tenter 6 (formerly (X018)  
**Company:** Phifer Incorporated  
**Description:** Fabrics woven from coated yarns are passed through oven to achieve bonding of yarns at crossing points. Oven vented through wet scrubbers and an ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 10.0 MMBTU/hr each oven  
 Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NOx	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Tenter No. 6

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
3. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	



or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary Tenter No. 7

**Emission Unit(s):** 024  
**Designation No(s). in Application:** Tenter 7 (X030)  
**Company:** Phifer Incorporated  
**Description:** Fabrics woven from coated yarns are passed through oven to achieve bonding of yarns at crossing points. Oven vented through wet scrubbers and an ESP.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: Natural Gas 10.0 MMBTU/hr each oven

Secondary: Propane

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
PM	$E = 3.59(P)^{0.62}$	ADEM Admin. Code R. 335-3-4-.04
CO	N/A	N/A
NO <sub>x</sub>	N/A	N/A
VOC	N/A	N/A
Visible Emissions	Opacity limited to 20% in any 6-minute period	ADEM Admin. Code R. 335-3-4-.01

## Unit Specific Provisos – Tenter No. 7

Federally Enforceable Provisos	Regulations
<i>Section 1—Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R.335-3-16-.03, “Major Source Operating Permits.”	ADEM Admin. Code R. 335-3-16-.03
2. This unit is subject to the particulate emission rate limits for Process Industries – General Sources.	ADEM Admin. Code R. 335-3-4-.04
3. This unit is subject to the opacity emission rates.	ADEM Admin. Code R. 335-3-4-.01
<i>Section 2—Emission Standards</i>	
1. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code R. 335-3-4-.01
2. This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of, $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr.	ADEM Admin. Code R. 335-3-4-.04
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. Visible emissions shall be determined using Method 9 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
2. Particulate emissions shall be determined using Method 5 of 40CFR60 Appendix A.	ADEM Admin. Code R. 335-3-16
<i>Section 4—Emission Monitoring</i>	
1. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40CFR60 Appendix A. If visible emissions greater than normal are observed corrective action shall be taken within 24 hours and an additional observation shall be made.	ADEM Admin. Code R. 335-3-16
2. The ESP operating status shall be monitored on a daily basis and the percentage of working cells determined. If greater than 20% of the cells are not working or if 2	

or more cells horizontally are not working repairs shall be immediately made.

*Section 5—Recordkeeping and Reporting Requirements*

1. Records shall be kept of all ESP inspections required under Emission Monitoring of this section and of any corrective action taken.
2. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken.

## Operating Permit Summary –Solvent Cleaning Machine 7900A

**Emission Unit(s):** 025  
**Designation No(s). in Application:** 7900A Solvent Cleaning Machine  
**Company:** Phifer Incorporated  
**Description:** Continuous cold solvent cleaning of single strand wire.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: None

Secondary: None

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
TCE	MACT	40CFR63 – Subpart T

## Unit Specific Provisos – Solvent Cleaning Machine 7900A

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
1. This Source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major source Operating Permits".	ADEM Admin. Code R. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-11-.06(19), "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 2--Emission Standards</i>	
1. This source is subject to the applicable emission standards of 40CFR63 Subpart T - , "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 3--Compliance and Performance Test Methods and Procedures</i>	
1. This source is subject to the applicable testing methods of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 4--Emission Monitoring</i>	
1. This source is subject to the applicable monitoring requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 5--Recordkeeping and Reporting Requirements</i>	
1. This source is subject to the applicable recordkeeping requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
2. This source is subject to the applicable reporting requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)

## Operating Permit Summary – Solvent Cleaning Machine 7900B

**Emission Unit(s):** 026  
**Designation No(s). in Application:** 7900B Solvent Cleaning Machine  
**Company:** Phifer Incorporated  
**Description:** Continuous cold solvent cleaning of single strand wire.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: None

Secondary: None

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
TCE	MACT	40CFR63 – Subpart T

## Unit Specific Provisos – Solvent Cleaning Machine 7900B

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
1. This Source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major source Operating Permits".	ADEM Admin. Code R. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-11-.06(19), "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 2--Emission Standards</i>	
1. This source is subject to the applicable emission standards of 40CFR63 Subpart T - , "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 3--Compliance and Performance Test Methods and Procedures</i>	
1. This source is subject to the applicable testing methods of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 4--Emission Monitoring</i>	
1. This source is subject to the applicable monitoring requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 5--Recordkeeping and Reporting Requirements</i>	
1. This source is subject to the applicable recordkeeping requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
2. This source is subject to the applicable reporting requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)



## Operating Permit Summary – Solvent Cleaning Machine 7900C

**Emission Unit(s):** 027  
**Designation No(s). in Application:** 7900C Solvent Cleaning Machine  
**Company:** Phifer Incorporated  
**Description:** Continuous cold solvent cleaning of single strand wire.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: None

Secondary: None

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
TCE	MACT	40CFR63 – Subpart T

## Unit Specific Provisos – Solvent Cleaning Machine 7900C

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
1. This Source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major source Operating Permits".	ADEM Admin. Code R. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-11-.06(19), "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 2--Emission Standards</i>	
1. This source is subject to the applicable emission standards of 40CFR63 Subpart T - , "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 3--Compliance and Performance Test Methods and Procedures</i>	
1. This source is subject to the applicable testing methods of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 4--Emission Monitoring</i>	
1. This source is subject to the applicable monitoring requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 5--Recordkeeping and Reporting Requirements</i>	
1. This source is subject to the applicable recordkeeping requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
2. This source is subject to the applicable reporting requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)

## Operating Permit Summary – Solvent Cleaning Machine 7900D

**Emission Unit(s):** 028  
**Designation No(s). in Application:** 7900D Solvent Cleaning Machine  
**Company:** Phifer Incorporated  
**Description:** Continuous cold solvent cleaning of single strand wire.

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: None

Secondary: None

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
TCE	MACT	40CFR63 – Subpart T

## Unit Specific Provisos – Solvent Cleaning Machine 7900D

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
1. This Source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major source Operating Permits".	ADEM Admin. Code R. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-11-.06(19), "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 2--Emission Standards</i>	
1. This source is subject to the applicable emission standards of 40CFR63 Subpart T - , "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 3--Compliance and Performance Test Methods and Procedures</i>	
1. This source is subject to the applicable testing methods of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 4--Emission Monitoring</i>	
1. This source is subject to the applicable monitoring requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
<i>Section 5--Recordkeeping and Reporting Requirements</i>	
1. This source is subject to the applicable recordkeeping requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)
2. This source is subject to the applicable reporting requirements of 40CFR63 Subpart T, "National Emission Standards for Halogenated Solvent Cleaning."	ADEM Admin. Code R. 335-3-11-.06(19)